

Version with markings to show changes made

In the Claims:

A marked-up version of claims 1 and 2 is presented below.

1. (Amended) A method for determining the activity range of a test compound, which modulates the uptake of serotonin by a serotonin reuptake transporter (SERT), against a secondary target, said method comprising the steps of:

(a) contacting a first nematode expressing a mutated *Caenorhabditis elegans* SERT (CeSERT) polypeptide, wherein said mutated CeSERT polypeptide has a reduced capacity to take up serotonin relative to wild-type, with said compound;

(b) assaying a defined behavior of said first nematode; and

(c) [assaying said defined behavior of a second nematode not contacted with said compound; and

(d)] comparing said defined behavior of said first nematode to the defined behavior of a [that of said] second nematode not contacted with said compound, wherein a difference in said defined behavior between said first and second nematode indicates that said compound has a secondary target.

2. (Amended) The method of either claim 1 or 12, wherein steps (a) to (c) [(d)] are repeated using first and second nematodes selected from a panel of nematodes expressing mutant CeSERT polypeptides, wherein said mutant CeSERT polypeptides differ from said mutated CeSERT polypeptide of step (a).